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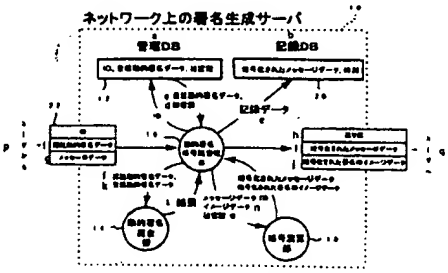
(54)Title: DIGITAL SIGNATURE GENERATING SERVER AND DIGITAL SIGNATURE GENERATING METHOD

(54)発明の名称 ディジタル署名生成サーバ及びディジタル署名生成方法

(57) Abstract

A digital signature system using a public key code method in which the management of a private key is easy and the convenience is enhanced. A dynamic signature encryption key management unit (16) obtains registered dynamic signature data and a private key from a management database (12) in accordance with an "ID" transmitted from a user. The registered dynamic signature data and authentication dynamic signature data transmitted from the user are collated with each other by a dynamic signature collation unit (14). If both the data are judged to be identical, the dynamic signature encryption key management unit (16) supplies message data transmitted from the user and the private key to an encryption calculation unit (18), which transmits the message data etc. encrypted by the private key to the dynamic signature encryption key management unit (16). The dynamic signature encryption key management unit (16) transmits the message data etc. which are encrypted, i.e. signed, back to the user. It is not necessary for the users to manage their own private keys by themselves, so that a digital signature system significantly convenient can be obtained.



DERWENT-ACC-NO: 1999-214793

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TITLE: Digital signature generation server for data encryption

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PATENT-ASSIGNEE: CYBER SIGN JAPAN INC[CYBEN] , CADIX INC[CADIN] , CADIX KK[CADIN]

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JP 11088321 A	March 30, 1999	N/A	013	H04L 009/32
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BASIC-ABSTRACT:

NOVELTY - A digital **signature server** has a dynamic signature encryption key management unit which obtains registered dynamic signature data and a private key from a management database in accordance with an ID transmitted from a

user. The registered dynamic signature data and authentication dynamic signature data transmitted from the user are collated with each other by a dynamic signature collation unit. If both the data are judged to be identical, the key management unit supplies message data transmitted from the user and the **private key** to an encryption calculation unit, which transmits the message data etc. encrypted by the **private key** to the key management unit which transmits the message data etc. which are encrypted, i.e. **signed,** back to the user.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a digital signature generating method.

USE - For data encryption.

ADVANTAGE - It is not necessary for the users to manage their own private keys by themselves, thus is more convenient.

CHOSEN-DRAWING: Dwg.0/7

TITLE-TERMS: DIGITAL SIGNATURE GENERATE SERVE DATA ENCRYPTION

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